

**PHONAK**  
life is on

A Sonova brand



# Roger™ for Education.

Unlock more meaningful connections in every lesson

**roger**

# Hearing more means learning more

Hearing well allows children to pick up on sounds, words, and patterns in speech, which are key building blocks for strong speech and language development as they grow.

**45 million words**

needed for good speech & language development<sup>1</sup>



**20,000 hours**

of listening in infancy needed for reading skills<sup>2</sup>



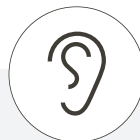
**90% of time**

spent listening in speech in noise<sup>3</sup>



**2 years old**

can learn novel words by over-hearing or environmental monitoring<sup>4,5</sup>



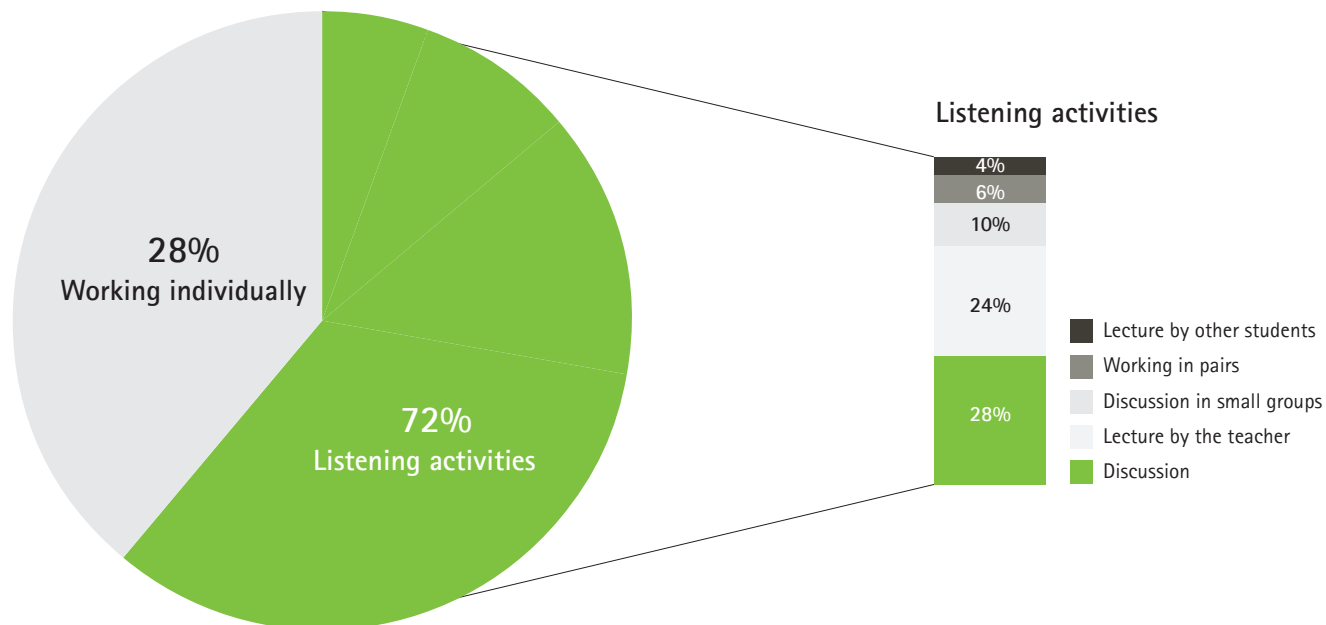


# ● Active participation in the modern classroom

A modern classroom is made up of many elements which create a dynamic learning environment. That involves peer-to-peer work, lectures or activities including various forms of multimedia. In all of these situations, distance, background noise and reverberation can be challenging for those students with hearing loss.

When a topic is discussed, a simple question can spark interest and inspire kids who may not otherwise get involved. It creates an open dialogue between students and teachers while helping to strengthen language and verbal skills.

Interactive listening situations have been found to represent 72% of a student's learning opportunities in class<sup>6</sup>





Clinical evidence show that Roger supports children's learning and language development. During this critical stage, Roger is the hearing companion that helps children focus, participate and thrive in the classroom and everyday life.

**+32%**

speech understanding  
with Roger compared to  
HA alone<sup>7</sup>

**Better**

receptive discourse skills<sup>8</sup>

**5,300**

more words per day<sup>9</sup>

**12%**

more  
child-directed speech<sup>10</sup>





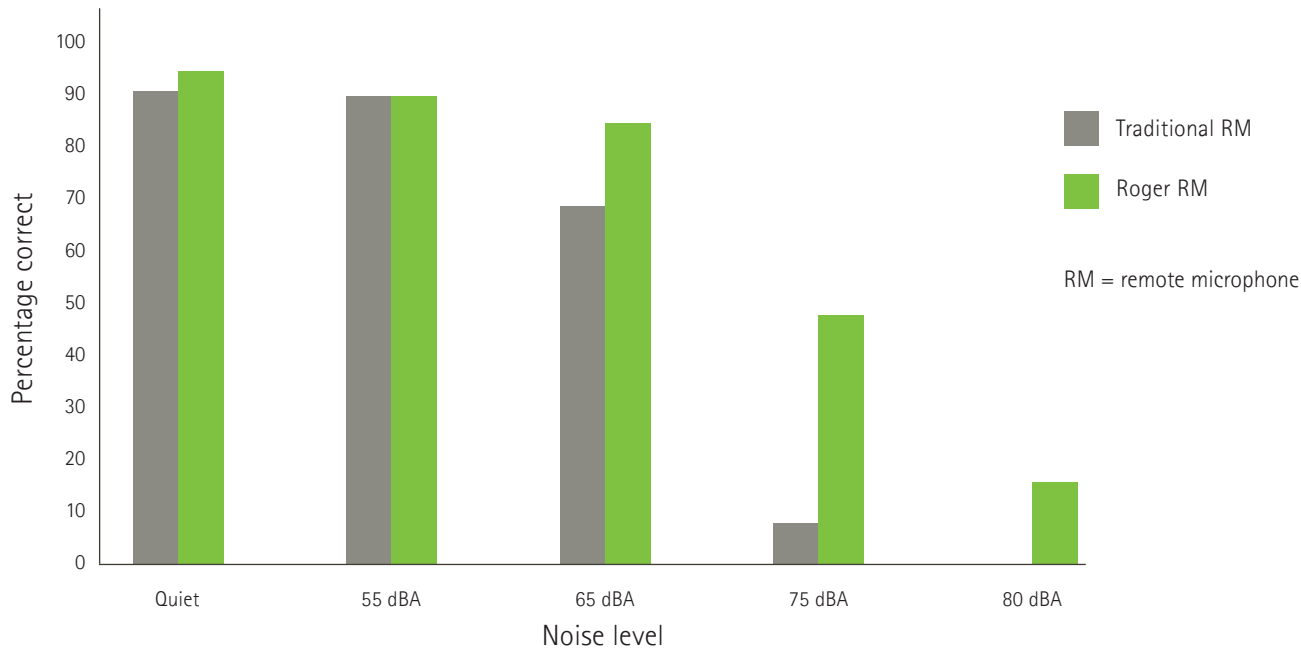
# More meaningful connections in class

To keep up with fast-changing learning environments, the Roger for Education portfolio offers various intuitive and easy-to-use solutions, specifically designed for any situation. Students and teachers alike can now master various modern classroom activities with ease. That's how they will form stronger, more meaningful connections.

## Extraordinary performance

In order to learn via auditory information and understand context, a student must have access to the clearest sound possible. These skills are not only required for successful academic progress, but also necessary for social development.

With the best speech-in-noise performance, Roger is a class above the rest.<sup>11</sup>





## Zero hassle

### Automatic microphone mode

Fully automatic microphone settings allow for optimal use with minimal intervention on the part of students or teachers. The right microphone mode is automatically chosen based on the orientation of the device. This makes it easy to use on a daily basis for teachers and students.

### Intuitive indicator lights

Roger features an indicator light concept across the devices which is clearly visible and easily understood by both students and teachers. The indicator lights confirm the operational status of each device, whether on, off, charging, muted or being used with multiple people talking in a network.

### One-tap connection

Connecting microphones and receivers has never been easier. Simply position the Roger Touchscreen Mic close to a receiver or other Roger device and tap "Connect".

## Advanced technology

### Full compatibility

Roger can benefit your clients no matter the manufacturer of their hearing aids. Because Roger is compatible with virtually every hearing aid and cochlear implant that has a direct audio input or t-coil.

### MultiTalker Network

Unique to Roger, the MultiTalker Network allows several Roger microphones (Roger Touchscreen Mic, Roger Pass-around and Roger Multimedia Hub) to be used together, providing children with access to multiple talkers to ensure they can hear all talkers or instructional media sources.

### RogerDirect

RogerDirect allows Roger microphones to stream directly to the hearing aids. After a simple installation of the receiver into the hearing aid, clients benefit from the proven performance of Roger, in noise and over distance<sup>10</sup>, without attaching an external receiver. This major innovation makes Roger technology easier to use and hearing aids smaller.



# ● Roger for education portfolio

The Roger for Education portfolio has been carefully designed for the classroom. From the Roger Touchscreen Mic and the Roger Pass-around, to a variety of Roger receivers, soundfield speaker systems and other classroom devices, there is a solution for every student in all situations.

●● 86% of Roger Touchscreen Mic users rate it 4 and above out of 5<sup>12</sup>







## Roger Touchscreen Mic

Now with unlimited digital receivers built inside the transmitter, Roger simplifies the installation process when it comes to Phonak hearing aids with RogerDirect. There is no longer need to uninstall receivers or worry about re-ordering another receiver when a hearing aid is lost or replaced. The user interface makes Roger Touchscreen Mic simple and intuitive to use in the classroom and allows both teachers and students to easily know when the microphone is working and transmitting.

### Key features:

- With an automatic microphone function, it conveniently switches between lanyard mode, small group mode and pointing mode, depending on its orientation.
- The mute indicator light is customized to allow for more discreteness when needed
- The MultiTalker Network allows several Roger microphones to be used together
- Compatible to Roger DigiMaster, our unique SoundField system which allows the Touchscreen Mic to be used as the primary microphone, for distributing the teacher's voice throughout the whole classroom.





### **Lanyard mode**

During class or lectures, the teacher can wear Roger Touchscreen Mic around the neck, in lanyard mode, and it will automatically pick up their voice regardless of its position.

### **Small Group mode**

It utilizes a system of three intelligent embedded microphones working together in an advanced and adaptive way. When the Roger Touchscreen Mic is placed on a table between 2 to 5 students, the microphones will automatically orient to the student who is talking in the group. In a study, 100% of children preferred listening to their peers during classroom activities when using the Touchscreen Mic in Small Group mode compared to no microphone.<sup>13</sup>

### **Pointing mode**

Sometimes the user of the Roger Touchscreen Mic is the student themselves. They may, for example, take the device with them to different classes. Pointing mode allows a child or a teen to simply point the microphone in the direction of the teacher to capture their voice, with a range of 4 meters or 13 inches.





## Roger Pass-around

Designed to enhance classroom discussions so that not only teachers, but all students, are heard.

### Key features:

- Applies to several talkers, where Roger Pass-around can be handed from one person to another or placed in the sturdy stand in front of the student
- Automatically activated by voice. Alternatively, the Roger Pass-around can be configured for Push-to-Talk functionality



## Roger Multimedia Hub

Can be connected to any multimedia device used in a classroom – ranging from smartboards and TVs to computers and videos.

### Key features:

- Audio mixing feature that allows a teacher's voice to be heard simultaneously with an audio signal, when the Roger Multimedia Hub is used in a network
- Added functionality as a standalone media transmitter by an individual student
- Streaming mode is optimal for listening to an audiobook, using a tablet or computer



## Roger Charging Rack

A small and lightweight charger that allows up to four Roger devices to be charged simultaneously, making teachers ready for the next day in the classroom.



### Roger WallPilot

A wall-mounted device that automatically connects students' Roger receivers and teachers' microphones to the room's existing Roger network, saving up teachers' time to get students ready for class.



### Roger Repeater

An accessory that can be used with a Roger for Education primary transmitter to help extend the range of audio, allowing the Roger signal to be heard anywhere in a large classroom.



### Roger DigiMaster

Positioned in the classroom, Roger DigiMaster loudspeaker has multiple speakers within the tower.

#### Key features:

- 12 individual speakers in the Roger DigiMaster 5000 and 15 in the Roger DigiMaster 7000
- Cylindrical sound dispersion is used so that the teacher's voice is distributed almost equally through the room
- Adaptive system is integrated in all Roger devices, helping the teacher's voice stay above the noise



100% of children preferred listening to their peers using Small Group mode during classroom activities.<sup>13</sup>



# Roger receivers and accessories

The Roger Touchscreen Mic now has unlimited receivers which means there is no longer need for physical receivers when connecting to Phonak hearing aids, and cochlear implants with RogerDirect. Regardless of the manufacturer and the hearing technology in use, Roger provides a range of receiver styles and accessories, to ensure a solution for every student.

## Roger X

The miniature universal Roger receiver is compatible with virtually all hearing aids and cochlear implants which have a direct audio input.



## Roger NeckLoop

An easy-to-use universal Roger receiver worn around the neck and compatible with any hearing aid or cochlear implant with T-coil. Can also be used for speech-to-text.



## Roger design-integrated receivers

Roger receivers designed for specific cochlear implants and earlier generations of hearing aids.



## Roger Focus II

Roger Focus II is a Roger ear-level receiver that is used in combination with a Roger microphone to send the speaker's voice directly to the wearer to improve the signal-to-noise ratio (SNR). Roger Focus II is compatible with all Roger microphones. It is offered with a 312 battery or a rechargeable option.











## References

- 1 Hart, B. & Rissley, T. (1995). Meaningful differences in the everyday experience of young American children. Baltimore, MD: Paul H. Brookes Publishing
- 2 Dehaene, S. (2009). Reading in the Brain: The Science and Evolution of a Human Invention. New York, NY: Viking.
- 3 Cruckley, J., Scollie, S., & Parsa, V. (2011). An exploration of nonquiet listening at school. *Journal of Educational Audiology*, 17, 23 – 35.
- 4 Akhtar, N. (2001) Learning words through overhearing.
- 5 Foushee, R. & Xu, F. Active overhearing: Development in preschoolers skill at 'listening in' to naturalistic overheard speech
- 6 Lejon, A. (2013). Children with hearing loss, are they really integrated in the classroom. White Paper. Retrieved from [http://www.comfortaudio.com/wp-content/blogs.dir/1/\\_les\\_mf/inclusionorexclusionchildrenwithhearinglossaretheyreallyintegratedinthe classroom1309.pdf](http://www.comfortaudio.com/wp-content/blogs.dir/1/_les_mf/inclusionorexclusionchildrenwithhearinglossaretheyreallyintegratedinthe classroom1309.pdf)
- 7 Wolfe, J. et al., (2021). Evaluation of a Dual Adaptive Remote Microphone System. *Journal of Educational, Pediatric & (Re)Habilitative Audiology (JEPRA)*, Vol. 25, 2021-2022.
- 8 Curran, M., Walker, E., Roush, P., & Spratford, M. (2019). Using Propensity Score Matching to Address Clinical Questions: The Impact of Remote Microphone Systems on Language Outcomes in Children Who Are Hard of Hearing. *Journal of Speech, Language, and Hearing Research*. 62 (3): 564-576.
- 9 Bacic, L. & Tharpe, A.M. (2019). Impact of remote microphone system use on access to child-directed speech when used in homes of children with hearing loss. *Field Study News*, in preparation.
- 10 Benitez-Barrera, C.R, Angley G., & Tharpe, A.M. (2018). Remote microphone system use at home: Impact on caregiver talk. *Journal of Speech, Language and Hearing Research*, Vol. 61, 399-409.
- 11 Wolfe, J., Duke, M., Schafer, E., Jones, C., Mulder, H., John, A., & Hudson, M. (2015). Adaptive digital remote microphone system and a digital remote microphone audio streaming accessory system. *American Journal of Audiology*, 24(3), 440-450.
- 12 Sonova proprietary research. (2023). Project ID4725. Please contact [marketinsight@phonak.com](mailto:marketinsight@phonak.com) if you are interested in further information.
- 13 Rich, S. & Gigandet, X. (2016). Roger™ Touchscreen Mic Small Group mode: Changing the dynamics of group activities in the classroom. *Phonak Insight*





# life is on


Since 1947, Phonak is dedicated to preserving life quality by opening new acoustic worlds. Already back then, in the days of our foundation, our company was driven by a formative conviction: We believe that well-hearing equates to well-being and thus is essential for living life to the fullest. In fact, the sense of hearing is directly linked to social, emotional, cognitive and physical well-being. Today as in future, we thrive to offer the broadest portfolio of innovative hearing solutions. And, together with our hearing care professionals, we keep on focusing on what matters most: improving speech understanding, changing people's lives and having a positive effect on society as a whole.

[phonak.com/roger](https://phonak.com/roger)



028-1503-02/V4.01/2024-10/na © Sonova AG All rights reserved

**sonova**  
HEAR THE WORLD

 Sonova Communications AG · Herrenschwandweg 4  
CH-3280 Murten · Switzerland

